## PATENT COOPERATION TREATY

2.7 MAY 2005

From the INTERNATION	NAL SEAR	CHING AUTHORITY	P	PCT		
То:		<u>f.</u>				
D. YOUNG & CO	ORDER			OF TRANSMITTAL OF L SEARCH REPORT AND		
Attn. Haines, M	DIARY	30/07/05		N OF THE INTERNATIONAL		
120 Holborn	REC'D		\$EARCHING AUTHORI	TY, OR THE DECLARATION		
London EC1N 2DY	(TONDON)	2 7 MAY 2005				
UNITED KINGDOM	Implancial		(RECOPOS)			
	ANSO /		MOTED	/		
	ENTRY		(PC	CT Rule 44.1)		
	FOR	MJH	Date of mailing			
			(day/month/year) 30/0	05/2005		
Applicant's or agent's file	reference					
P019290WO MJH	10.0701100		FOR FURTHER ACTION	See paragraphs 1 and 4 below		
	1-					
International application N			International filing date (day/month/year)			
PCT/GB2005/0003	60	<u> </u>	03/0	02/2005		
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OHM LIMITED	• De	MAND DUE - 16	DEC 2005 (22M for	enority)		
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The applicant is     Authority have be	hereby notifie een establishe	d that the international search ed and are transmitted herewi	report and the written opinion of t	the International Searching		
1		tatement under Article 19:				
			ns of the International Application	(see Rule 46):		
			mally 2 months from the date of tra details, see the notes on the acco			
i		•		ompanying sneet		
Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Fascimile No.: (41-22) 740.14.35						
For more detailed instructions, see the notes on the accompanying sheet.						
2. The applicant is Article 17(2)(a) t	hereby notifie to that effect a	d that no international search nd the written opinion of the Ir	n report will be established and than ternational Searching Authority a	it the declaration under re transmitted herewith.		
3. With regard to	the protest a	gainst payment of (an) addition	onal fee(s) under Rule 40.2, the ap	plicant is notified that:		
	togothor with	the decision thereon has bee	n transmitted to the International E	Purpou togother with the		
			test and the decision thereon to the			
no decision	n has been ma	ade yet on the protest; the app	olicant will be notified as soon as a decision is made.			
4. Reminders						
	ation of 18 mo	nths from the priority date, th	ne international application will be	published by the		
International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.						
The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the						
	International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to					
the public but not before the expiration of 30 months from the priority date.						
Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary						
examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed						
acts for entry into the national phase before those designated Offices.						
In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.						
<b>i</b> .						
		and, for details about the app and the WIPO Internet site.	olicable time limits, Office by Office	e, see the PCT Applicant's		
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		- Parad Orange Street Artists	4			
		ational Searching Authority  B. 5818 Patentlaan 2	Authorized officer			
NL-2280 HV	Rijswijk		Luis-Miguel Par	edes Sanchez		
Tel. (+31-70) Fax: (+31-70)		x. 31 651 epo nl,				
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#### NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

## **INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19**

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

#### What parts of the International application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

#### When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

## Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been its filed, see below.

#### How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

## What documents must/may accompany the amendments?

### Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

Notes to Form PCT/ISA/220 (first sheet) (January 1994)

## NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

## The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
   "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
   "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
   "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

#### "Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

## It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

## Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

## Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

Notes to Form PCT/ISA/220 (second sheet) (January 1994)

## PATENT COOPERATION TREATY

# **PCT**

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER		see Form PCT/ISA/220
P019290WO MJH	ACTION	as well	as, where applicable, item 5 below.
International application No.	International filing date (day/mont	h/year)	(Earliest) Priority Date (day/month/year)
PCT/GB2005/000360	03/02/2005		16/02/2004
Applicant	•		
OHM LIMITED			
This International Search Report has been according to Article 18. A copy is being tra			nority and is transmitted to the applicant
This International Search Report consists	of a total of sh	eets.	
X It is also accompanied by	a copy of each prior art document of	ited in this	report.
Basis of the report			
	international search was carried out ess otherwise indicated under this i		sis of the international application in the
The international this Authority (Ru		of a transl	ation of the international application furnished to
b. With regard to any nucleo	otide and/or amino acid sequence	disclosed	in the international application, see Box No. I.
2. Certain claims were fou	nd unsearchable (See Box II).		
3. Unity of invention is lac	king (see Box III).		
4. With regard to the title,			
X the text is approved as su	bmitted by the applicant.		
the text has been establis	hed by this Authority to read as follo	ws:	
5. With regard to the abstract,			
X the text is approved as su			
			ity as it appears in Box No. IV. The applicant ch report, submit comments to this Authority.
6. With regard to the drawings,			
a. the figure of the drawings to be p	published with the abstract is Figure	No. <u>6 A</u>	<del></del>
X as suggested by	• •		
l 岩'	s Authority, because the applicant for Authority, because this figure better		
	s Authority, because this figure bett e published with the abstract.	or CriataCle	sizes die Hivermon.
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## INTERNATIONAL SEARCH REPORT

International Application No PCT/GB2005/000360

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 G01V3/12

According to International Patent Classification (IPC) or to both national classification and IPC

#### **B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols) IPC  $\,\,7\,$  G01V

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, COMPENDEX, INSPEC

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
А	ELLINGSRUD S ET AL: "Remote sensing of hydrocarbon layers by seabed logging (SBL): Results from a cruise offshore Angola"  LEADING EDGE; LEADING EDGE (TULSA, OK) OCTOBER 2002, vol. 21, no. 10, October 2002 (2002-10), pages 972-982, XP002328147 cited in the application the whole document	1,28,30, 35,37, 46,50

X Further documents are listed in the continuation of box C.	Patent family members are listed in annex.		
<ul> <li>Special categories of cited documents:</li> <li>*A* document defining the general state of the art which is not considered to be of particular relevance</li> <li>*E* earlier document but published on or after the international filing date</li> <li>*L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</li> <li>*O* document referring to an oral disclosure, use, exhibition or other means</li> <li>*P* document published prior to the international filing date but later than the priority date claimed</li> </ul>	<ul> <li>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</li> <li>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</li> <li>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</li> <li>"&amp;" document member of the same patent family</li> </ul>		
Date of the actual completion of the international search	Date of mailing of the international search report		
13 May 2005	30/05/2005		
Name and mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2  NL - 2280 HV Rijswijk  Tel. (+31-70) 340-2040, Tx. 31 651 epo n1,  Fax: (+31-70) 340-3016	Authorized officer  Lorne, B		

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## INTERNATIONAL SEARCH REPORT

International Application No
PCT/GB2005/000360

Category °	ation) DOCUMENTS CONSIDERED TO BE RELEVANT  Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
alegory *	Onation of document, with indication, where appropriate, or the relevant passages	
A	ELLINGSRUD, S. ET AL.: "Sea Bed Logging (SBL), a new method for remote and direct identification of hydrocarbon filled layers in deepwater areas" FIRST BREAK, vol. 20, March 2002 (2002-03), pages 144-152, XP002328148 cited in the application the whole document	1,28,30, 35,37, 46,50
А	WO 03/048812 A (UNIVERSITY OF SOUTHAMPTON; MACGREGOR, LUCY, M; SINHA, MARTIN, C) 12 June 2003 (2003-06-12) abstract	1,28,30, 35,37, 46,50
Α	GB 2 390 904 A (* UNIVERSITY OF SOUTHAMPTON) 21 January 2004 (2004-01-21) abstract	1,28,30, 35,37, 46,50
	·	

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## INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/GB2005/000360

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
W0 03048812	A	12-06-2003	GB	2382875 A	11-06-2003
			UΑ	2002349125 A1	17-06-2003
			BR	0214678 A	23-11-2004
			CA	2468896 A1	12-06-2003
			WO	03048812 A1	12-06-2003
			US	2005077902 A1	14-04-2005
GB 2390904	A	21-01-2004	AU	2003242839 A1	02-02-2004
			WO	2004008183 A2	22-01-2004

Form PCT/ISA/210 (patent family annex) (January 2004)